

We claim :

1. Compounds of structural formula I and formula II as in figure 1.0 as inhibitors of histone acetyl transferase where in

R₁ is OH, halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O- Butoxy, O-
5 t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-Cl, O-SO₂-CH₃, O-
CH₂-CHOH-CH₃

R₂ is OH, halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O- Butoxy, O-
t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-Cl, O-SO₂-CH₃, O-
CH₂-CHOH-CH₃

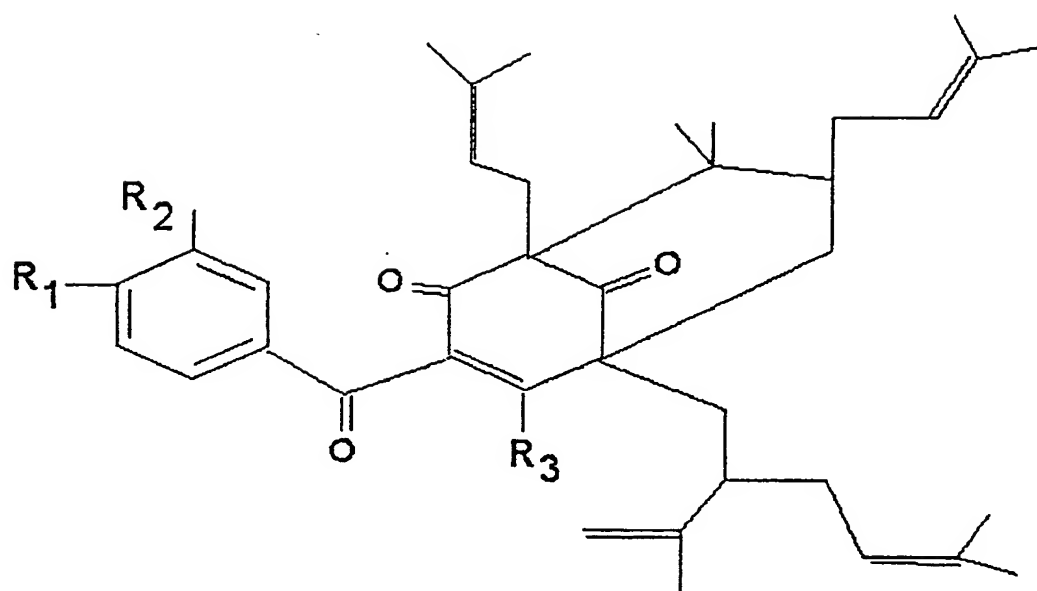
10 R₃ is OH, halogens, O-Methoxy, O- Ethoxy, O-Isopropoxy, O-Allyoxy, O- Butoxy,
O-t-Butoxy, O-Pentoxy, O-Hexyloxy, O- CH₂-COOH, O-CO-CH₂-Cl, O-SO₂-CH₃, O-
CH₂-CHOH-CH₃

R₄ is OH, halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O- Butoxy, O-
t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-Cl, O-SO₂-CH₃, O-
15 CH₂-CHOH-CH₃

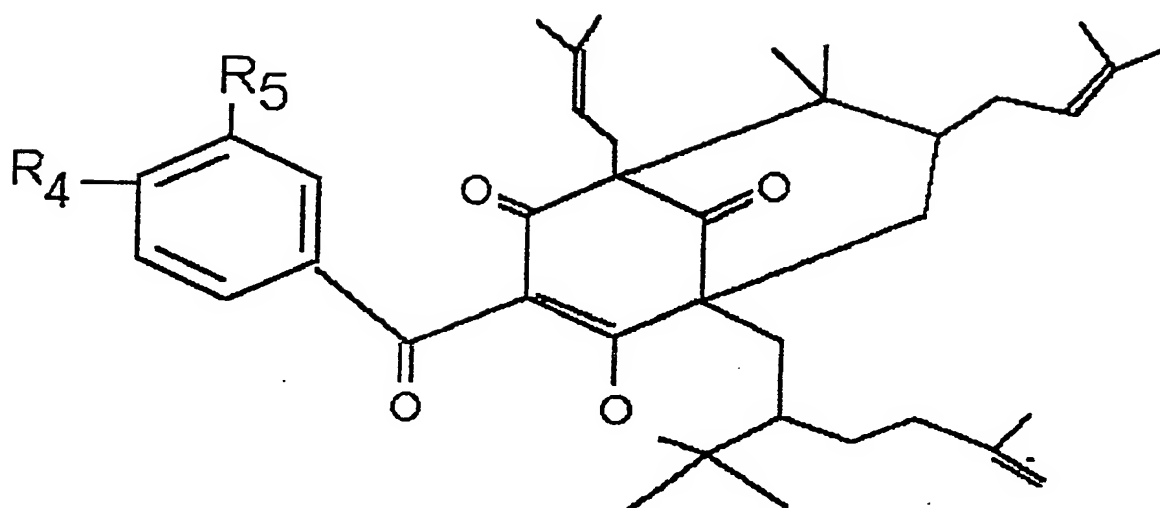
R₅ is OH, halogens, O-Methoxy, O-Ethoxy, O-Isopropoxy, O-Allyoxy, O- Butoxy, O-
t-Butoxy, O-Pentoxy, O-Hexyloxy, O-CH₂-COOH, O-CO-CH₂-Cl, O-SO₂-CH₃, O-
CH₂-CHOH-CH₃

20 2.A process of preparing compounds as described claim 1 by known methods.

3.A method of treating a patient suffering from diseases due defects in gene
regulation predominantly or at risk of, cancer, which comprises administering to
the patient a therapeutically effective amount of a compound of formula (I) to
activate histone acetyltransferases or formula (II) to inhibit histone
acetyltransferase or a pharmaceutically acceptable salt or solvate of these
25 compounds.



FORMULA I



FORMULA II